

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Frederick D. Kim (Registration number: 38,513) on 5/7/09.

3. **The application has been amended as follows:**

In the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1.- 6. (Cancelled)

7. (Currently amended): A method by a dedicated processor for allocating resources for executing tasks in an application in a multi-processor computing environment, the method comprising:

providing a script file to the dedicated processor prior to beginning execution of the application, the dedicated processor being dedicated solely to executing the script file and the allocation of resources to a

plurality of other processors, the script file including a map of execution sequences including an execution sequence of one or more tasks for each of the plurality of other processors;

running and parsing the script file, by the dedicated processor, to determine resources required by each of the plurality of other processors based on the map of execution sequences; and

dynamically allocating the resources, by the dedicated processor, immediately prior to execution of each of the one or more tasks to achieve the execution of the one or more tasks based on the map of execution sequences included in the script file, wherein resource allocation is synchronized when the resources are needed by the plurality of other processors for the execution of the one or more tasks, and each of the plurality of other processors is configured to ~~be able to~~ determine what tasks can be performed without having to wait to receive information from a different one of the plurality of other processors.

8. (Currently amended): The method of claim 7 wherein the script file is an I/O ~~processor-script~~ file.

9. (Currently amended): A predictive resource allocation system for a multi-processor computing environment having a plurality of processors, comprising:

a plurality of other processors for executing an application;

a dedicated processor dedicated solely to providing resource allocation to the plurality of other processors;

a script file containing information related to the resources required by the plurality of other processors to execute the application including a map of execution sequences including an execution sequence of one or more tasks for each of the plurality of other processors;

the dedicated processor running the script file and parsing the script file to determine the resources required by the plurality of other processors prior to beginning execution of the application; and

the dedicated processor dynamically allocating resources prior to execution of each of the one or more tasks to achieve the execution of the one or more tasks based on the map of execution sequences included in the script file, wherein resource allocation is synchronized when the resources are needed by the plurality of other processors for the execution of the application, and each of the plurality of other processors is configured to ~~be able to~~ determine what tasks can be performed without having to wait to receive information from a different one of the plurality of other processors.

10. (Cancelled)

11. (Currently amended): A method for allocating resources for use by a

first processor in execution of an application comprising a plurality of tasks in a multi-processor computing environment, the method comprising:

providing a script file to the first processor prior to beginning execution of the application, the first processor being dedicated solely to parsing the script and to allocation of resources to a plurality of other processors, the script file containing a map of execution sequences including an execution sequence of tasks for each of the plurality of other processors;

running and parsing the script file, by the first processor, to determine the execution sequence of the tasks for each of the plurality of other processors to execute the tasks and to determine the resources required by each of the plurality of other processors to execute the tasks; and

dynamically allocating the resources, by the first processor, to the plurality of other processors for execution of the application by the plurality of other processors based on the map of execution sequences included in the script, wherein resource allocation is synchronized when the resources are needed by the plurality of other processors for the execution of the tasks, and each of the plurality of other processors is configured to be able to determine what tasks can be performed without having to wait to receive information from a different one of the plurality of other processors.

12. (Previously Presented): The method of claim 11 wherein allocating the resources to the plurality of other processors in the multi-processor environment further comprises dynamically allocating the resources at the time needed for the execution of the tasks.

13. (Previously presented): The method of claim 7 wherein each of the plurality of other processors executes multiple tasks as part of a single application.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CAMQUY TRUONG whose telephone number is (571)272-3773. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng Ai An can be reached on (571)272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/974,521

Art Unit: 2195

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/VAN H NGUYEN/
Primary Examiner, Art Unit 2194

Camquy Truong

May 8, 2009